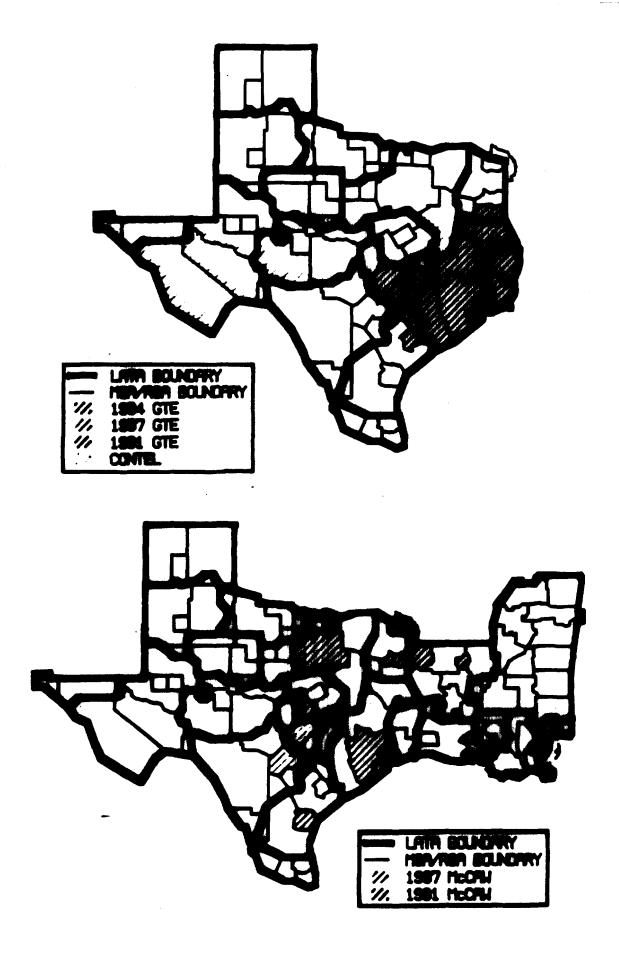
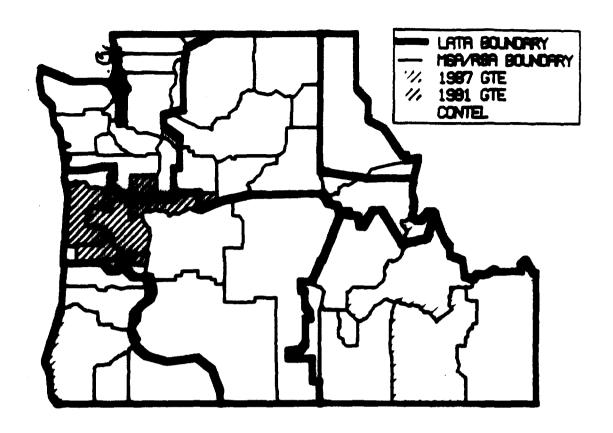
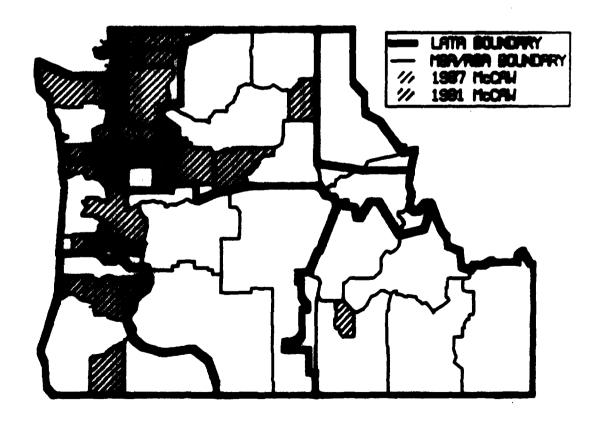


Map 2.4(a)-(b). California Cellular Coverage of (a) GTE; (b) McCaw.



Map 2.5(a)-(b). Texas Cellular Coverage of (a) GTE; (b) McCaw.





Map 2.6(a)-(b). Pacific Northwest Cellular Coverage of (a) GTE; (b) McCaw

Virtually every player in the cellular market has embarked on a similar mission to build and integrate broad geographic areas of service. Centel's 1988 annual report emphasized the company's "clustering strategy"; 139 a trade journal noted a couple years later that "Centel is using the concept [of clustering] with great fervor." 140 Indeed. Centel has recently applied for permission to join four discrete service areas into one seamless unit. 141 See MAPS 1.5, 1.6(A)-(B), supra. Vanguard has pursued similar aims, as illustrated in MAP 1.8, supra. "We have succeeded in creating five regional metroclusters." Vanguard announced in its 1989 annual report. "[T]he clustering strategy has yielded accelerating penetration and lower operating costs." 142 Century Telephone has built major clusters in the Upper Midwest and the Southwest. 143 See MAPS 1.11(A)-(B). supra. In its 1969 annual report, ALLTEL declares itself to be "particularly pleased" with the way newly acquired RSA licenses "cluster around many of our existing properties, expanding ALLTEL's serving area and enhancing the value of the system to our customers."144 See MAP 1.9, supra. Metro Mobile likewise systematically "group[ed] its interests" so that it would "be viewed as a regional, rather than local, cellular operator. 145 See MAP 1.7, supra. SNET has acquired a license in every Connecticut MSA

<sup>139</sup> CENTEL CORP., 1986 ANNUAL REPORT 21 (1986). Centel's 1989 annual report noted that its pursuit of RSA licenses would "enlarge our "footprint," or coverage area, as well as offer us strong rearning revenue potential as well-traveled corridors between major markets." CENTEL CORP., 1989 ANNUAL REPORT 22 (1990).

<sup>&</sup>lt;sup>140</sup>Centel Focuses on Southwest and Mexico, MCBILE PHONE NEWS, Sept. 13, 1990, at 1.

<sup>&</sup>lt;sup>141</sup>Dean Witter, Telecommunications industry: The Eroding Monopoly 5 (Mar. 20, 1991).

<sup>142</sup> As noted in a trade journal: "[T]he company's main goal [is to] secur[e] markets adjacent to their existing markets in order to build market clusters. \* \* \* Building 5 network clusters in 3 geographic areas and linking them with a Network Operations Center (NOC) has been Vanguard's formula for building a successful cellular operation. Vanguard currently services \$.5 million page, of which 4 million are contiguous." Vanguard Acquires ASA to Complement Cluster, Mass.s Prible News, Aug. 30, 1980, at 1. As noted in the company's 1980 ensual report, Vanguard's "Permaykethis Superayetern is \* \* \* an integrated network serving a contiguous 11,000 equare mile area with a population of more than three million. The Pennsylvania Superayetern \* \* \* Is leased with 12 major interstate highways, including the Pennsylvania Tumplite. It serves 16 counties in eastern Pennsylvania \* \* \* and is closely linked to the major cellular markets of New York, New Jersey, Philadelphia, and Beltimore/Washington D.C.\* Vanguard Cellular Sys., Inc., 1989 Annual Report 7 (1990).

<sup>&</sup>lt;sup>145</sup>Toward this end, Century noted in 1987 that it was "actively sociding licenses in selected Rural Service Areas that are certifiqueur to [ite] existing cellular operations." CENTURY TEL. ENTERPRISES, INC., 1987 ANNUAL REPORT 3, 12 (1988).

<sup>&</sup>lt;sup>144</sup>ALLTEL CORP., 1989 ANNUAL PERFORT 3, 13 (1980). "By strategically clustering its rural service areas around its metropolitan cellular markete, ALLTEL has not only depended its overall serving area but can operate those markets more efficiently." *Id.* at 5. ALLTEL recently realitimed that such clustering forms "[a] key part of [its] strategy," allowing the company to "maximize the cellular coverage area for [its] customers." ALLTEL CORP., 1980 ANNUAL REPORT 13 (1991).

<sup>&</sup>lt;sup>145</sup>METRO MOBILE CTS, 1889 ANNUAL REPORT 5 (1980); see also METRO MOBILE CTS, INC., 1986 ANNUAL REPORT 2 (1987). Metro Mobile, an independent non-wireline cellular provider, entered the cellular market with the intention of focusing its development "on the Southwest, Southeast and Northeast regions of the

and RSA, together with one in adjacent Springfield, Massachusetts. See MAP 1.10, supra. Comcast, a major cable operator, has developed cellular operations along the corridor connecting New York City and Wilmington, Delaware. Comcast recently agreed to purchase Metromedia's non-wireline interests in Philadelphia, New Brunswick, and Long Branch, properties that "fit[] like a glove with [Comcast's] existing cellular holdings.

Other Centiguities. Many providers have recognized that competitively important communities of interest are defined not by urban and suburban complexes but by interstate highways. MAPS 2.7, 2.8, 2.9. These providers have assembled service necklaces accordingly. They emphasize continuous highway service in their P.R. materials and sales brochures. GTE, for example, boasts that its Florida customers are "able to travel important roads, \* \* \* such as 175, Highway 17 and State Roads 64 and 70, with uninterrupted service."

country." Metho Module GTS, 1987 Annual Percent 3 (1988). By utilising a clustering strategy, the company has been able to "offer subterfisers wider areas of uninterrupted service coverage as they travel \* \* \*. In addition, the switches serving certain contiguous markets (specifically, Hertford-Springfield-New London-Pittsfield; New Haven-Bridgeport; and Providence-New Beglierd) are technically interfaced to permit, among other things, calls in pregness to continue uninterrupted when a caller moves from one market served by one such switch to a contiguous market served by anather switch." Metho Module CTS, 1989 Annual Report 5 (1980). Matre fittable has emphasized that "[gjasgraphy has been an important consideration in our development and continues to be essential in our plans for expansion," and noted that it is seeking "smaller markets adjacent to our edeting operations." Metho Module CTS, Inc., 1986 Annual Report 2-3 (1987).

<sup>146</sup>CTIA, STATE OF THE CHALLAR INDUSTRY 16 (Spring 1686). Even before it received floances in both of Connecticut's REAs, SMET elabraid that "(vije now after vistaally uninterrupted mobile calling between the major metropolitan areas in Connecticut. That acverage is critical to the ever-growing number of travelers from other states who use SMET's mobile phone service while driving the busy New York to Boston corridor." SNET, 1988 Avienu. Report 13 (1986).

<sup>&</sup>lt;sup>147</sup>Comcast has ever 2.4 million cable subscribers. See Comcast Corp. Files Registration Statement, PG. NEWSWINE, May 8, 1991.

<sup>&</sup>quot;\*\*Kuhn, Casting Sulf-Mighter Alek with Convertible Alphale, Formust, Apr. 22, 1891, at 44. Comcar is cable operations are executed in the same corridor, thus allowing it to "use existing cable architecture" to create the "enty" " " " true hybrid of cellular and cellula." Communications Dally, Jan. 11, 1991 at 4. Comcast has adupte to "expand its metropoliten service area by acquiring adjacent licenses or entering on agreements with the equalities of those adjacent franchises." Armstrong, Cellular Technology Moving on Rural Pennsylvania, Prauditarian Bus. J., Nov. 26, 1980, § 2, at 38.

<sup>&</sup>lt;sup>148</sup>Compact Moves into the Big Leagues with Philadelphia Buy, Mosil Phone News, May 23, 1991 of 2-3. According to the company's president, the acquisition will give Compact a contiguous nonweaponetwork — a fantastic Northeast corridor." *Id.* at 3.

<sup>&</sup>lt;sup>150</sup>GTE Mobilinet Introduces Cellular Service to Florida's First 'Tiural Service Area' With Activation of Hardee RSA, PR Newswife, July 24, 1990.

coverage along highways I-80, I-680, and I-780.<sup>151</sup> McCaw boasts of its "continuous, uninterrupted" cellular service for over 150 miles along I-35, between San Antonio and Killeen/Temple.<sup>152</sup>

Water traffic is defining yet another set of geographic service areas, often integrated with the land traffic leading to marines and docks. SNET serves boaters in Long Island Sound; 153 GTE emphasizes that its California coverage area extends "10 to 12 miles into the Pacific Ocean," 154 Radiofone informs Louisiana boaters they can "pull[] in the specks [speckled trout] without ever being out of touch." 155 In 1987, a yacht broker in Oregon noted that cellular phone calls could be made "from St. Helens to Cascade Locks" -- about 60 miles along the Columbia River. 156

<sup>&</sup>lt;sup>151</sup>GTE Mobilnet's Vallejo-Fairlield-Napa System Goes On Line, PR Newswire, Apr. 9, 1987.

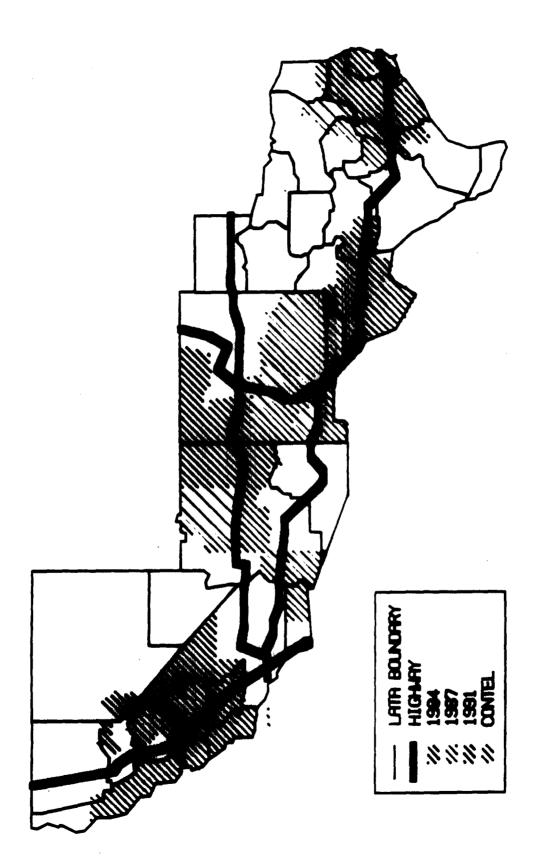
<sup>&</sup>lt;sup>152</sup>McCew-Cellular One Sales Brochure & Coverage Map for Austin, TX (current as of Feb. 1991) (brochure entitled Where We Cover You).

<sup>189</sup> SNET Expande its Callular Mobile Service Into Greenwich, Conn., Business Wine, Feb. 29, 1988.

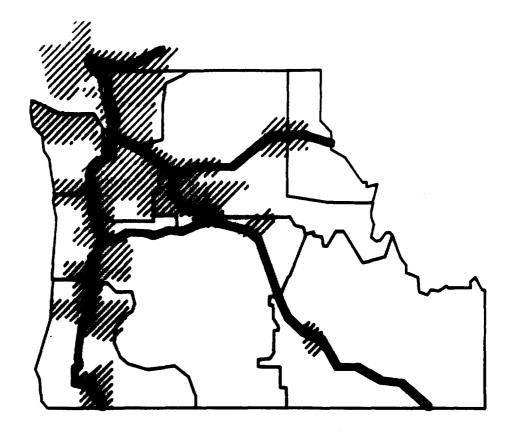
<sup>154</sup> GTE Mobilinet Offers Exclusive Airtime Credit to New Cellular Service Subscribers, Business Wire., Jan. 19, 1969.

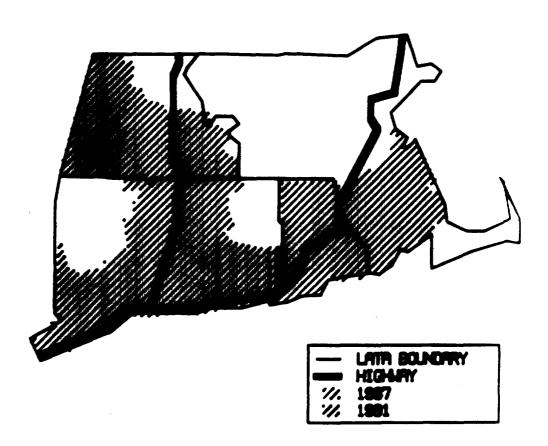
<sup>155</sup> RADIOFONE, THE PARIOFONE ROAMER GUIDE (Oct. 1980). When TDS's subsidiary U.S. Cellular introduced cellular service in LaCrosse, Wisconsin, one commentator noted that "[o]ne of the best uses of cellular service in LaCrosse-area resident is its ability to be used on the water. Cellular users can take their service with them while fishing, skiling, or just relaxing on the boat!" Handy, Low-Cost Cellular Phone Service Now Available in LaCrosse, Bus. Today, Aug. 30, 1988, § 1, at 5. "Bost owners are \* \* \* enamored with the privacy and clear connections cellular phones allow them while on the water." Naumann, The Telephone Road Show Features New Players, Oregon Bus., July 1987, § 1, at 31.

<sup>156</sup> Naumann, The Telephone Road Show Features New Players, OREGON BUS., July 1987, \$ 1, at 31.



Map 2.7. GTE/Contel Cellular Coverage Along Selected Southwest Highways.





Map 2.8. McCaw Cellular Coverage Along Selected Pacific Northwest Highways Map 2.9. Metro Mobile Cellular Coverage Along Selected New England Highways

The collapse of geographic boundaries in the provision of mobile services is of course more evident still among train and air travelers. GTE's Airlone operates on more than 1,400 commercial aircraft; Railfone serves major Amtrak routes on the east and west coasts. The number of U.S. commercial planes with phones has risen from 37 in 1984 to 1,427 in 1980, and phones are being added to over 200 planes a year. By the end of 1990, approximately 30 percent of the entire U.S. commercial fleet of air carriers was equipped with Airfone. Flyers can currently place calls while flying anywhere over the U.S. and Southern Canada, including Alaska, Hawaii, Puerto Rico, and the Virgin Islands, or within 200 miles of the U.S. coastline. By late 1991, according to GTE, passengers will be able to make calls while flying anywhere in the world. In 1990, McCaw announced plans to develop a competing airborne phone service.

McCaw has clearly recognized that telecommunications need not follow communities of interest; it creates them. Thus, one of McCaw's declared objectives is to target "multi-market and government accounts with a "national network." "We know that multi-market, geographically-dispersed businesses will be important customers," declares McCaw's chairman and CEO, "and cellular will position itself as the primary technology to meet their communications needs."

Finally, the development of services in rural areas has uncovered yet another type of opportunity for cellular service, defined by yet another set of fluid and constantly shifting geographic boundaries. It can be very experisive to run telephone lines to isolated residences in rural areas, or to flow meters installed on gas pipelines, or to emergency

<sup>&</sup>lt;sup>157</sup>GTE, 1990 Amnual Report 34 (1991); GTE Airfone to Install Seatfone System on More Than 150 Eastern Airlines Aircraft, PR Newswife, Sept. 25, 1990. GTE Relibine is available to passengers on Amtrak trains running between Boston and Washington and from Los Angeles to San Diego. COMMUNICATIONS DAILY, Oct. 30, 1990, at 10.

<sup>&</sup>lt;sup>186</sup>GTE, 1990 ANNUAL REPORT 34 (1991); Lewyn, Ground to Airlone: Prepare for Hostile Fire, Bus. WEEK, Feb. 12, 1990, at 88.

<sup>&</sup>lt;sup>159</sup>GTE, 1990 ANNUAL REPORT 22, 34 (1991).

<sup>&</sup>lt;sup>160</sup>GTE Airlane and COMBAT to Offer Global Satellite-Communications Service for Airline Passengers. PR Newswire, Sept. 12, 1980.

<sup>&</sup>lt;sup>161</sup>GTE, 1980 ANNUAL REPORT 22 (1991).

<sup>&</sup>lt;sup>162</sup>McCaw Cellular and Hughes Network Apply to Jointly Offer Airborne Telephone and Data Transmission Services, Business Wine, Oct. 23, 1980.

<sup>163</sup> MCCAW CELLULAR COMMUNICATIONS, INC., MCCAW'S GOALS AND VALUES 9 (CUITORS as of Jan. 1991).

<sup>&</sup>lt;sup>164</sup>McCaw Cellular Communications, Inc., Cellular Communications: A Vision of the Future 11 (Oct. 20, 1989).

call boxes along highways or in parks. For such needs, cellular service may be competitively viable even for stationary users, whose "communities of interest" are defined not by any dense urban population, but by the precise opposite — the very low population density of a rural area. As one market analyst has noted, "the basic telecommunication infrastructure in rural America is not as accessible as it is in urban areas, so we believe that the incremental value of cellular communications is greater for rural businesses."

Cast Efficiencies. Clustering strategies have been impelled, in the first instance, by the customer's demand for wider-area coverage, and by the engineer's difficulty in providing coordination between systems, especially between systems operated by different carriers with different equipment. Providers of cellular service have also recognized, however, that clustered systems can be much cheaper to operate. Despite the industry's rapid growth, many service areas do not offer a sufficient base of customers to justify use of a dedicated MTSO. A provider with clustered licenses can deploy switches in the most efficient manner possible, which will often mean consolidating

The coordination of [McCaw's] cellular systems into an operational network of regional systems would enable [McCaw] to enjoy functional and compatitive advantages. The cluster strategy enables [McCaw] to conscitute switching functions using a small number of extiches in each region, and to avoid committing capital to the installation of individual switches in each MSA. It allows [McCaw] to offer to its subscribers expanded service areas and enhanced services, such as automatic roaming and reduced roaming rates. The addition of Cagal to [McCaw's] San Primitize fluiry Area cluster would increase the benefits [McCaw] can provide both to Cagal's customers and to customers of other [McCaw] affiliates serving the Bay Area cluster.

Joint Application of McCaw Communications of Senta Ross, Inc. & Cagal Cellular Communications Corp. for Authorization to Acquitre Control of Cagal Cellular Communications Corp., 35 C.P.U.C.2d 586 (1990) (1990 Cal. PUC LEGS 106, at \*9-\*10).

<sup>165</sup> See, e.g., Cheebro, A New Ere for Nevejo Phone Service, TELEPHONY, Feb. 6, 1969, at 31.

highways in San Diego County and Orange County in California, and in parts in New York. Additional contrasts have been surreducible another 2,000 in Riverside and San Bernardino Counties. The company also provides numerous emergency phones on college campuses, in airport parking garages, in parks, and at other public areas throughout the country. GTE Mobile Communications to Install Fall-Safe Emergency Communications System in New York City, PR Newswee, June 19 1990.

<sup>167</sup> Brokerages Give Cellular Inc. an Enthusiastic Thumbs Up, MOSILE PHONE NEWS, Aug. 2, 1980, at 5.

<sup>168</sup> Cluster operators almost invariably standardize their operations on a single manufacturer's switch. See, e.g., GTE Chooses ATET as Bipulpment Supplier to 36 Markets, Mostle Phone News, Dec. 20, 1990, at 6; Carriers, Vendors Continue Quest for Cellular Super-Networks, Mostle Phone News, June 7, 1990, at 1.

<sup>160</sup> As the California Public Utilities Commission found, in a recent review of McCaw's California cluster:

service across FCC licensing boundaries. Instead of placing separate switches in San Antonio, Corpus Christi, and McAllen/Edinburg/Mission, for example, an operator might serve all of those areas directly out of San Antonio. 170

RHC affiliates aside, all major cellular providers have recognized and taken steps to exploit switch and offer efficiencies of clustered operation. McCaw's 1987 annual report stated: "Our efforts in acquiring cellular franchises have been focused on the rational assembly of adjacent properties which will yield us operating efficiencies and, in many cases, competitive advantages."

The company's 1989 annual report states: "Clustering offers McCaw Cellular operating efficiencies, capital savings and service advantages."

Elsewhere the company half destared that "regional consolidations and coalitions are what create \* \* \* the greatest economies for operators like ourselves. \* \* \* [T]he size of the service area within which we can create an integrated system is the key to our operating economies."

<sup>&</sup>lt;sup>170</sup>The decree court has also recognized the possibility of such efficiencies. In 1983, for example, the court acknowledged that contining the RHC affiliates to LATAs, at least in the asses for which exceptions were then being sought, would entail "a substantial line in the economic efficiencies which could be produced by integrated, multi-LATA systems." United States v. Western Elec. Co., 578 F. Supp. 643 (1983).

<sup>&</sup>lt;sup>171</sup>MCCAW CELLULAR COMMUNICATIONS, INC., 1987 ANNUAL REPORT 3 (1988).

<sup>172</sup> MCCAW CELLULAR COMMONDATIONS, INC., 1689 Asilton, Floront 4 (1989). See also MCCAW CELLULAR COMMUNICATIONS, INC., 1889 Assault. Report 3 (1991) (Chartering hypically \* \* \* allows more efficient regional and regional startual startual

<sup>173</sup> MCCAW CILLULAS COMMUNICATIONS, INC., CILLULAS COMMUNICATIONS: A VISION OF THE FUTURE 7 (Oct. 20, 1989).

<sup>&</sup>lt;sup>174</sup>CENTEL CORP., 1988 ANNUAL REPORT 21 (1989).

<sup>175</sup> Century Telephone Enterprises Inc., Fet. World, Nov. 28, 1989, at 108.

<sup>176</sup> VANGUARD CELLULAR SYS., INC., 1988 ANNUAL REPORT 6 (1990).

<sup>177</sup> METRO MOBILE CTS, 1990 ANNUAL REPORT 4 (1991).

on several occasions. "The idea of acquiring adjacent cellular markets and running the markets as one mega system is not new," the journal reported in August 1990. "When the Metropolitan Statistical Areas (MSA) licenses were first granted, many companies set out to form wireline or non-wireline clusters \* \* \*. Starting up markets adjacent to operating markets offers decreased start-up and service costs, accelerated penetration and lower operating costs. Buying equipment for multiple systems or switch sharing also affords lower costs."

Less than a month later the journal reported: "[b]y operating adjacent markets, a company is \* \* \* able to share ewitches, marketing, management and engineering teams and economies of purchase."

## Communities of interest and the RHCs

While the PCC has freely permitted technology and market forces to bridge (and functionally erase) the geographic boundaries specified in individual radio licenses, RHC affiliates have continued to operate under a second, quite separate set of geographic constraints. The divertiture decree provided that the RHCs' Bell companies would not be permitted to offer "intertuchange" services and defined "Local Access and Transport Arass" ("LATAs") to give meaning to that prehibition. A total of 164 LATAs were established at divertiture, ranging in size from a single city to an entire state. The average LATA included about 500,000 lengtine subscribers. LATA boundaries were drawn with a pragmatic eye on the established lendline network.

No one involved in the divestiture negatiations had given much thought to how LATA boundaries would affect the provision of mobile services. Mobile services were

in general, it is expected that suple armounds be large arough to comprehend exhibitions areas having common pastal and económic characteristics but half the large as to defeat the intere of the decree to especial the provision of legislary convices from the grantation of legislary convices from the grantation of legislary convices from the grantation of legislary exercises. Court approval thus is required if exchange areas are to include more than one standard metropolitan statistical area or to cross a state line.

Competitive impact Statement at 30, United States v. Western Elec. Co., No. 82-0192 (D.D.C. Feb. 2. In its later comments on the proposed LATA boundaries, the Department emphasized that "[t]he service of the telephone network is also important to the design of the LATAs." DOJ therefore planned to correspond the "existing configuration of telephone facilities" in defining "the boundaries of local telephone markets" and found it "existed to place significant weight on the extent to which [a proposed ATA configuration] would clarify facial distribution systems." Response of the United States to Comments Received on the BOC LATA Proposals at 6, 22, 37, United States v. Western Elec. Co., No. 82-0192 (C C Nov. 23, 1982) ("DOJ Response").

<sup>&</sup>lt;sup>178</sup>Vanguard Acquires RSA to Complement Cluster, Mosals PHONE News, Aug. 30, 1990, at 1.

<sup>179</sup> Centel Focuses on Southwest and Mexico, Mosaus Prioris Neva, Sept. 13, 1980, at 1.

<sup>180</sup> The DOJ explained IN the 1982 Competitive impact Statement how "the geographic scope of the SOC» services are to be established":

simply not an issue in the original laweuit against the Bell System. <sup>181</sup> According to its own contemporarieous statements on the subject, AT&T did not believe that LATA boundaries applied to mobile services at all. <sup>182</sup> The FCC likewise had not understood that the proposed decree was "designed to preclude the Bell Operating Companies from providing cellular services," nor had the Commission received any hint from DOJ that LATA boundaries might apply to radio services. <sup>183</sup>

When the issue came into dispute, AT&T argued vigorously that imposing LATA boundaries on RMC mobile services would make no economic or technical sense and would serve no legitimate competitive purpose. The FCC literate urged that LATA boundaries should not be applied to cellular service; noting that "there is virtually no competitive risk involved in making clear that the SCCs may engage in the cellular radio business to the same geographical extent as any other entity" and that imposing LATA boundaries on the RHCs' mobile affiliates would put them at a "potentially serious" competitive disadvantage with competitors offering a "more geographically expansive service." 186

<sup>&</sup>lt;sup>181</sup>As AT&T would point out, "[t]he Justice Department never even alleged anticompetitive conduct in the mobile services market in this case and abandoned the allegation made in *United States v. AT&T*, No. 74-1698. *Compare*, Complaint, ¶ 29C, with *PlaintIFs Third Statement of Contentions and Proof.*" AT&T Response to Comments and Objections Relating to the Proposed LATA Boundaries at 30, United States v. Western Elec. Co., No. 82-0192 (D.D.C. Nov. 23, 1982) ("AT&T Response").

<sup>&</sup>lt;sup>186</sup>In a November 1882 filling, AT&T confidently stated: "[T]he Decree dose not — and, in any event, should not — prohibit the diversal BOCs from providing guidle sadile service — which have been established to be 'exchange telledinimum cations services' — in whatever service areas are otherwise authorized by regulatory authorities." AT&T Response at 2 n.\*. AT&T thus urged that 'no special exception is required under the Decree to enable the BOCs and their affiliates to provide public radio services within the areas allowed by regulatory authorities." Id. at 37.

<sup>183</sup> F.C.C.2d at 68; PCC Reply at 2. The FCC explained its plan to allocate licenses that were geographically configures with SMRAs, and pointed out that "[1] he Department has never suggested in the course of the collular restricting that some other geographic area, such as LATAs, should be used for determining the limits of the SCCF callular service." FCC Reply st-fl. All of the applications that AT&T's AMPS had fleet or planned to 186 half been "designed [In line with the FCC's directive] to conform with the FCC's SMSA standard rather than the LATAs." Id. at 3.

<sup>184-(</sup>T)he testinalisty, describings, customer requirements, and compatible implications of mobile radio services are so different their those of landline services that it would be irrational and contrary to any reasonable interpretation of the Decree or antitrust policies to confine the BOCs' mobile radio systems to the precise LATAs assistables for landline service. ATAT Response at 28-27; see also The Bull System's Further Memorandum in Suppliert of its Request for a Rading that the Regional Companies are Permitted to Provide Public Radio Service Vittiguit Regard to LATA Soundarine at 4, United Status v. Western Elec. Co., No. 82-0162 (D.D.C. Nitry 9, 1885) ("LATAs are simply irrelegant to mobile radio services." " " Landline LATAs do not reflect the critically different characteristics of the services designed to reach moving vehicles or other mobile units.").

<sup>&</sup>lt;sup>165</sup>PCC Reply at 2, 4. The Commission also gointed out that as licensing proceeded to cover smaller urban and then rural communities, the need to integrate these with major urban systems would become preceing. *Id.* at 5, 6.

The Department of Justice, followed by the decree court, <sup>186</sup> took the position that mobile services should be fully subject to restrictions on interLATA services. <sup>187</sup> The Department did not rule out relaxing LATA boundaries for mobile services; it simply insisted that any deviations should be handled on a case by case basis. <sup>188</sup>

That there would be many such cases to handle was evident from the beginning, as both AT&T and the FCC took pains to note. The paging market, as we have seen, was rapidly becoming regional or national in scape. With callular, as discussed in detail in this chapter, the FCC was working with one sit of maps, DOJ and the degree court with quite another. The FCC was working with one sit of maps, DOJ and the degree court with quite another. The FCC was working with one sit of maps, DOJ and the degree court with Quite another. The FCC was working with one sit of maps, DOJ and the degree court with Quite another. The FCC was working with one sit of maps, DOJ and the degree court with Quite another. The FCC was working with one sit of maps, DOJ and the degree court with Quite another. The FCC was working with one sit of maps, DOJ and the degree court with Quite another. The FCC was working with one sit of maps, DOJ and the degree court with Quite another. The FCC was working with one sit of maps, DOJ and the degree court with Quite another. The FCC was working with one sit of maps, DOJ and the degree court with Quite another. The FCC was working with one sit of maps, DOJ and the degree court with Quite another. The FCC was working with one sit of maps, DOJ and the degree court with Quite another.

Paging Sendes. The RHCs recognited from the outset that unless they could expand the geographic scope of their paging operations they would quickly lose competitive ground to other providers not subject to any geographic restrictions. AT&T

<sup>&</sup>lt;sup>186</sup>United States v. Western Elec. Co., 578 F. Supp. \$43, 647 (D.D.C. 1983) (the provision of "any and all mobile radio services without regard to LATA boundables " " would have been entirely inconsistent with the terms and purposes of the decree, and the Court would not have authorized it").

<sup>187</sup> DOJ Response at 60-68.

<sup>&</sup>lt;sup>168</sup>Response of the United States to the Court's Memorandum of April 22, 1983 Concerning Public Radio Services at 4, United States v. Western Elec. Co., No. 82-0192 (D.D.C. May 9, 1983).

Moreover, the degree exact has readjusted the LATAs the markes no less than ninety-nine times since 1983. The LATA houseless allower on the maps in this report reflect the LATAs as originally approved by the court, as represented by Athan Tate's Maphieser LATA Boundary Software. The 164 LATAs established by the court are not always cardigibus and do not odver the entire United States. The intervening areas are served by independent carriers and are bounded by vertous LATAs. Therefore, such independent service areas serve a similar function to LATAs: they define boundaries across which the RHCs cannot provide service without a water. These areas, in addition to the 164 LATAs, are demarcated on the maps.

<sup>190</sup> DOJ's vigure of shorts water requests have evolved shiridly. In 1988, the Department appaced a blanket water on the granted-that the request was vague and potentially too broad, and that no positive case for a water had been greented. Memorandum of the United States in Response to May 9, 1983 Submissions Concerning \$500 Provision of Public Radio States, United States v. Western Elec. Co., No. 82-0192 (D.D.C. May 19, 1983). Thereafter, DOJ generally templanted requests for specific waivers of similar character, subject to various restrictions. By 1987, DOJ was ready to recommend general geographic relief for mobile services (affect still with an equal access condition), having concluded that "the competitive danger on which the current restriction is based would be entremely attenuated with respect to such services." Report and Resonates relificance of the United States Concerning the Line of Business Restrictions imposed on the Bell Operating Companies by the Modification of Final Judgment at 56, United States v Western Elec. Co., No. 82-0192 (D.D.C. Feb. 2, 1987).

immediately sought a general waiver to permit the RHCs to provide wide-area paging. The decree court turned down the request on November 1, 1983. 191

Paging concerns affiliated with the RMCs continued to press for geographic relief. TABLES 2.5, 2.6. In 1984, Ameritech and Bell Atlantic filled waiver requests to provide one-way interLATA paging services in several areas. Nineteen months later, the court ruled that Bell Atlantic could provide interLATA paging services in parts of Virginia, Pennsylvania, and New Jersey, and that Ameritath's paging services could cross LATA boundaries in Michigan and Illinois. In early 1998, the court granted in part PacTel's waiver request to provide both intraenohange and interexchange paging in Arizona, Kentucky, Georgia, Florida, Texas, and Meritath California service areas. NYNEX then received a waiver to provide one-way intertATA paging in several service areas in Connecticut, New York, Pennsylvania, New Jersey, Maryland, and Virginia. In 1987, the court granted in part a waiver that allowed Southwestern Bell to provide interexchange paging services in various parts of New York, California, Washington, D.C., Maryland, Illinois, Pennsylvania, and Texas.

Four years earlier, by contrast, the FCC had determined that separate subsidiaries were unnecessary for paging services. The Commission had explained:

[E]ntry barriers for the 900 MHz paging market are quite low. \*\*\* In addition, with 40 frequencies available in this allocation, the potential exists for a large number of paging operators to enter the 900 MHz market. Our experience with wireline participation in one-way paging services indicates that a separate subsidiary requirement is unnecessary. For many years, RCCs have competed with wireline carriers in providing paging services. The participation of wireline carriers in providing paging services has not, in the past, demonstrated a need for imposing structural separation requirements on these carriers to insure competition.

## 89 F.C.C.2d at 1345.

<sup>&</sup>lt;sup>191</sup>578 F. Supp. at **653** n.43.

<sup>&</sup>lt;sup>192</sup>United States v. Western Elec. Co., 1985-1 Trade Cas. (CCH) ¶ 67,148 (D.D.C. 1985). The waiver approval was subject to several conditions, however, including the use of separate subsidiaries. *Id.* at 62,921.

<sup>193</sup> PacTel initially submitted its request to the Department of Justice on duly 1, 1985, in connection with planned acquisition of Communications Industries. The court allowed PacTel to engage in "[i]rerows change telecommunications outside of Pacific's California-Nevada region, [including] paging," and in releast exchange paging in several Arisona, Kentucky, Georgia, Morida, Tessa, and Northiam California serve a areas. Order at 2, United States v. Western Elec. Co., No. 62-0192 (D.D.G. Feb. 28, 1988). Shortly there after, Bell Atlantic, after having first been ordered to divest itself of its out-of-region paging services. was permitted to provide out-of-region, intraLATA paging. Order, United States v. Western Elec. Co., No. 82-01-42 (D.D.C. May 14, 1986).

<sup>&</sup>lt;sup>194</sup>Order, United States v. Western Elec. Co., No. 82-0192 (D.D.C. Aug. 8, 1985).

<sup>&</sup>lt;sup>195</sup>Order, United States v. Western Elec. Co., No. 82-0192 (D.D.C. Sept. 22, 1987).

	Table 2.5. Paging Services Waivers.					
Date Granted	Location	Requestor				
Nov. 1, 1983	InterLATA paging in nine specific areas:  - New York  - Philadelphia  - Baston, Worcester, Providence  - Battimore, Washington, D.C.  - Milwaukee, Racine, Kenceha  - Memphis, North Memphis  - Cincinnati, Columbus, Dayton  - Datroit, Toledo  - Grustia, North Iowa	AT&T				
Feb. 26, 1986	Communications industries Acquisition: - Introductions paging out of region	Pacific Telesis				
May 14, 1985	Introquehènge paging out of region (A Beeper Co.)	Bell Atlantic				
June 20, 1988	InterLATA one-way paging: - Norlalk, Richmond - Philabilphia, Harrisburg, Northeast Pennsylvania - Philadelphia, New Jersey - Philadelphia, South New Jersey, Delaware Valley, and Atlantic Coastal LATA	Bell Atlantic				
June 20, 1986	interLATA one-way paging: - Michigan, Minois	Ameritech				
Aug. 8, 1986	InterLATA one-way paging: - Connecticut - Rachester, York - North New Jersey, Delaware Valley, Philadelphia, Sallebury - College, Richmond	NYNEX				
Sept. 22, 1987	Metromedia Acquisition; MultiLATA paging:  - Connecticut  - Bathmere  - Bath Massechusetts  - Nutr Manpaltire  - Nutr Manpaltire  - Nutr Many Jersey  - Rhade Idand  - Tampa  - Philadelphia  - Chicago  - Dellas  - San Antenio  - Lee Alignas	Southwestern Bell				
June 16, 1988	Mutti-ATA one-way paging: - Pleates, Michigan - Coffeens, Nevade, Artsons	Pacific Telesis				
June 16, 1988	MultiLATA one-way paging: - Philadelphia, Adansic Goestal, Delaware Valley, North New Jersey, Capitol, and Northeast Pennsylvania LATAs	Southwestern Bell				
Feb. 16, 1989	MultiLATA one-way paging: - No geographic limitations	RHCs				

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allowing Pacific Telesis to provide interLATA paging services in Florida, Michigan, California, Nevada, and Arizona, and Southwestern Bell to provide similar services throughout various Pennsylvania and New Jersey LATAs. The average time elapsed between when these waivers were first sought, and when they were granted, was about eight months.

Company	DOJ	Court	Disposition	Notes
			- Supposition	
AT&T	-	May 19, 1983	Nov. 1, 1983	Granted
Ameritech	Sept. 7, 1984	Dec. 11, 1985	June 20, 1986	Granted
Bell Atlantic	Nov. 26, 1984	Dec. 11, 1985	June 20, 1986	Granted
Pacific Telesis	July 1, 1985	Dec. 9, 1865	Feb. 26, 1986	Granted in part
<b>Bell Atlantic</b>	Jan. 17, 1986	Apr. 3, 1686	May 14, 1966	Granted in part
NYNEX	Feb. 21, 1986	July 2, 1886	Acro. 8, 1986	Granted
Southwestern Ball		Nov. 26, 1986	Sept. 22, 1987	Granted in part
Southwestern Bell	1	Sept. 15, 1988	-	Superseded*
Pacific Telegia	Nov. 4, 1987	May 12, 1988	June 16, 1986	Granted
Southwestern Bell	Feb. 5, 1988	May 12, 1988	June 16, 1988	Granted
BellSouth	Apr. 29, 1988	Sept. 15, 1986	Apr. 18, 1989	Granted
Southwestern Bell	May 27, 1986	Sept. 15, 1986	_	Supergeded*
US West	June 14, 1988	Sept. 15, 1988	1_	Superseded*
Bell Atlantic	July 1, 1986	Sept. 15, 1988	_	Superaeded*
Ameritach	Aug. 26, 1986	Sept. 19, 1988		Superseded*
NYNEX	Nev. 2, 1988	Dec. 9, 1988		Supercoded*
Southwestern Ball	Dec. 2, 1986	Dec. 28, 1986		Superseded*
Pacific Telegis	1		-	
	Dec. 5, 1986	Dec. 28, 1986	Eab 40 4000	Superceded*
RHCs	1 -	Sept. 15, 1986	Feb. 16, 1988	Granted"

<sup>\*</sup> On Sept. 15, 1888, the Department of Justice proposed a blankst multiLATA paging waiver to apply to all RHCs, regardless of geographic region served. By granting the Department's motion the court rendered designs on specific geging Walvir Reguests (sinecessary.

In February 1989, six years after AT&T first requested such relief for the RHCs the decree court finally granted a blanket weiver permitting all RHCs to provide one-way paging over any gasgraphic range. The court noted that "one-way paging constitutes a separate market from landline intertwichunge telecommunications services" and that full relief from the interexchange restriction posed no threat to competition in that

<sup>197</sup> Memorandum anti-Office; Utilized States v. Western Blas. Co., No. 88-0192 (D.D.C. Feb. 16, 1989) Court's decision resolved the requisits submitted to the Department by the following RMCs: Southwestern Bell (Dec. 12, 1988; May 27, 1988; Dec. 2, 1988), US West (June 14, 1986), Bell Atlantic (July 1. 1988) Ameritech (Aug. 26, 1986), NYNEX (Nov. 2, 1988), and Pacific Telesis (Dec. 5, 1986).

market. The court further acknowledged that "the paging industry has developed independently of LATA boundary constraints" and that "in order to compete effectively in the paging market, paging services must be offered on an area-wide basis." With the granting of the blanket waiver, it became "unnecessary [there]after for Regional Companies to apply for specific waivers for such operations."

<u>Cellular Services</u>. Wide-area cellular services have developed on a slower timetable than wide-area paging, because the service itself is a much more recent arrival in the marketplace. Nevertheless, a year before divestiture, with the cellular industry still in its infancy, AT&T was already able to identify nine specific areas in which cellular systems under development would conflict with the proposed LATAs.<sup>201</sup> The decree court promptly resolved these by granting appropriate waivers.<sup>202</sup>

The paucity of LATA/FCC-license conflicts in 1983 was not surprising. There were, at that time, few FCC licenses to speak of. Moreover, the basic geographic building blocks in the FCC licensing process (MSAs and REAs) were substantially smaller than the decree's LATAs and at that point the FCC had issued licenses to only a few of the

<sup>198&</sup>lt;sub>id.</sub> at 3-4.

<sup>&</sup>lt;sup>199</sup>ld. at 4.

<sup>&</sup>lt;sup>200</sup>kd. at 9. The court did, however, impose as a condition of the waiver that the Ri-IGs lease the intereschange links for multi-LATA paging services from nanafflighted intereschange certains. Itsid. The Court of Appeals subsequently reversed that condition and remainded to the district court for resphelderation, noting that "it is not apparent on this record how [the RHCs] could – let alone would – 'Impade competition' in the markets the clasma is designed to protect" if they owned and operated their own interLATA paging links. United States v. Western Elec. Co., No. 89-5106 (D.C. Cir. Oct. 17, 1980) (unpublished per curism).

<sup>&</sup>lt;sup>201</sup>These included: (1) Batten, Worcester, and Providence; (2) New York City and Northeth New Jersey, (3) Philadelphia and Sauthetts New Jersey, (4) Battemore and Westington, (5) Memphis and West Memphis, (6) Cincinnati, Columbus, and Dayton, (7) Detroit and Toledo, (8) Ornaha and Western Iowa, and (9) Seattle and Ballingham.

<sup>200578</sup> F. Supp. 648. The court recognized that LATA beandaries had been delined by reference to land-line rather than mights esting getterns, and that "the technologisal and competitive house implicated by mobile radio services in activated services. It activated that rigidly restricting RHC callular systems to LATA boundaries would "substantially inconveniences," their estateshills. The court emphasized specifically problems of intersystem handoff of an ongoing call when a moving vehicle crossed a LATA boundary. It also administed that imposing LATA boundaries on mobile services would entail "a substantial loss in the economic efficiencies which could be produced by integrated, multi-LATA systems" because of the unnecessary proliferation of MTSOs. Id. at 648, 649.

The United States is divided into 300 MSAs (excluding 6 MSAs in the Gulf of Mexico and Puerto Rico for which there are no corresponding LATAs) and 416 RBNs (excluding 10 RSAs in American Sames, Guam, Northern Marianes, and Puerte-Rico), compared to 164 LATAs. Size CTIA, STATE OF THE CILLULAR INDUSTRY 34-36 (Spring 1880); United States v. Western Elec. Co., 569 F. Supp. 969, 1011-1057 (D.D.C. 1869); United States v. Western Elec. Co., 569 F. Supp. 1067, 1103-1107 (D.D.C. 1983).

largest MSAs. Since many LATAs had been drawn around large MSAs, the possibilities for conflict were slight.

As the FCC continued to issue licenses, the number of conflicts multiplied. Moreover, as the licensing map filled out, the number of opportunities for integrated, wide-area service increased rapidly. MAP 2.10. Southwestern Bell, at the request of the Cellular Telecommunications Industry Association, recently analyzed the conflicts between LATAs and FCC licensing areas nationwide. The study found that opportunities for LATA conflicts were multiplying rapidly. As the accompanying maps reveal, the completion of the RSA licensing process has created a considerable number of conflicts between FCC licenses and LATA boundaries. MAPS 2.11(A)-(G). Moreover, every contiguous cellular service area, even if aligned with LATA boundaries, presents an additional potential opportunity for conflict, as urban sprawl evolves and communities of interest shift.

Assuming that each MSA operator will want intersystem hand-off with all adjoining cellular systems, my research concluded that the operators in 286 of the 306 MSAs would encounter a LATA problem. Of these 286 situations, approximately 52% currently involve a Regional Bell Holding Company.

in addition, there are approximately 1,367 possible adjacent system abutments (MSA/MSA, MSA/RSA, and RSA/RSA). Of those possible adjacent system combinations, approximately 1,135, or 82%, include a LATA intersection.

Upon review of the attached LATA maps, I also determined that of the 428 total RSAs, approximately 270, or 63%, contain at least one LATA intersection within the individual RSA areas defined by the FCC.

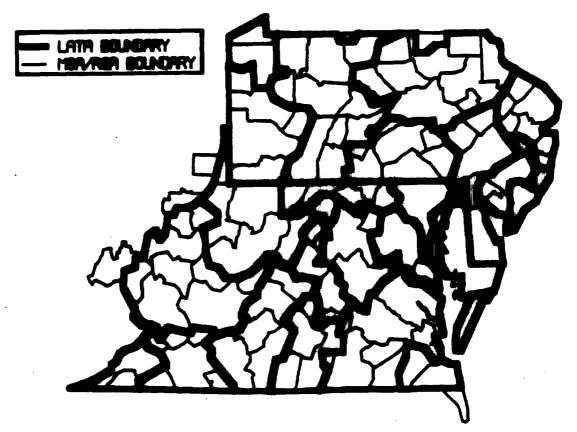
## Southern Aff. at 3.

These problems have proved particularly acute for US West which, through a subsidiary, has acquired equity interests in 87 RBAs and holds a non-managing minority interest in 67 other RBAs. At least 54 of those RSAs have boundaries that interest more than one LATA boundary. US West accordingly sought a waiver in December of 1999 to provide interLATA cellular service within RSAs and to permit certain affiliated cellular systems to own intereschange links. When the Department failed to act on that request, US West sought relial directly from the decree court. In August 1990, the court denied US West's request on the ground that DOJ had not yet taken a position on the issue. Memorandum and Order; United States v. Western Elec. Co., No. 82-9192 (D.D.C. Aug. 8, 1990). In March 1991, DOJ recommended that the court grant US West's request, as well as similar waiver requests submitted by other RHCs. The court has yet to act upon the Department's motion.

<sup>&</sup>lt;sup>204</sup>·[W]hen all 733 MBAs and RSAs are in operation there will be approximately 1387 areas where cellular systems will adjoin and almost inevitably overlap. Of these, approximately 1,135 will involve LATA intersections." Application for a Walver to Permit Southwestern Bell Corporation to Provide Intersystem Hand-Off Between Adjacent Cellular Systems at 26-27, United States v. Western Elec. Co., No. 82-0192 (DOJ July 21, 1988) (footnotes omitted). The affidavit of Larry E. Southern, Manager—Business Relations for Southwestern Bell Mobile Systems, attached as Appendix 4 to Southwestern Bell's walver request, further explains the results of the study:

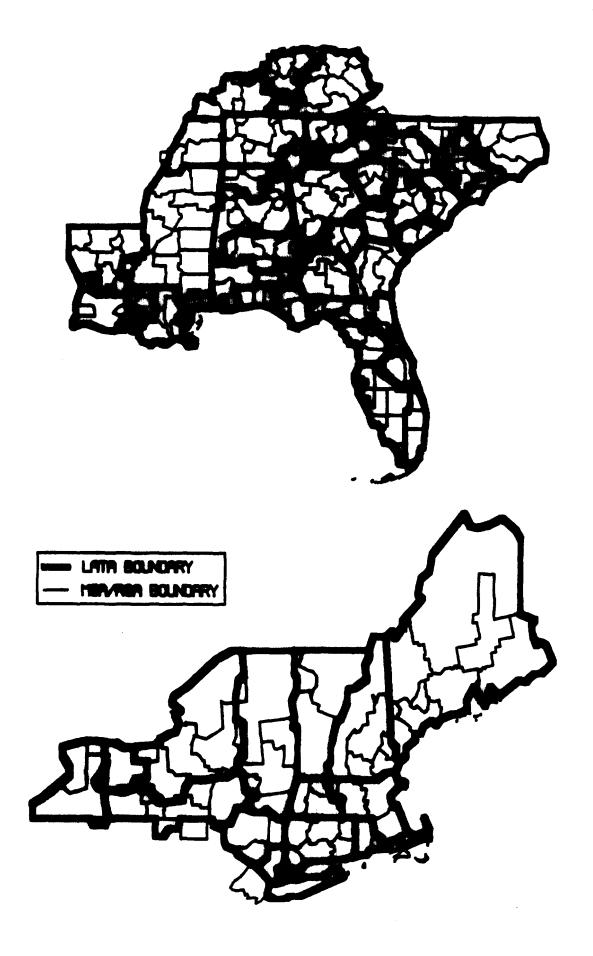
Map 2.10. FCC Licensing of MSAs.



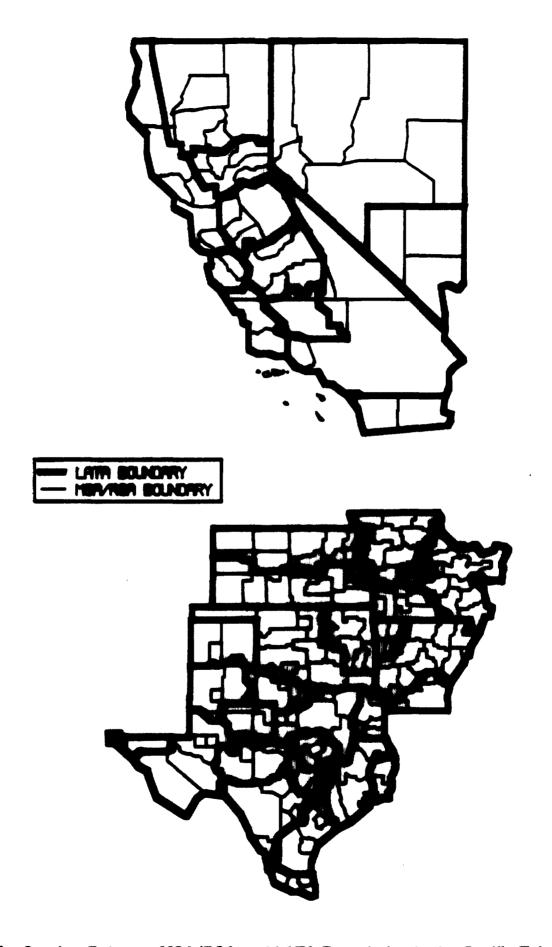


Map 2.11(a). Overlap Between MSA/RSA and LATA Boundaries in the Ameritech Region.

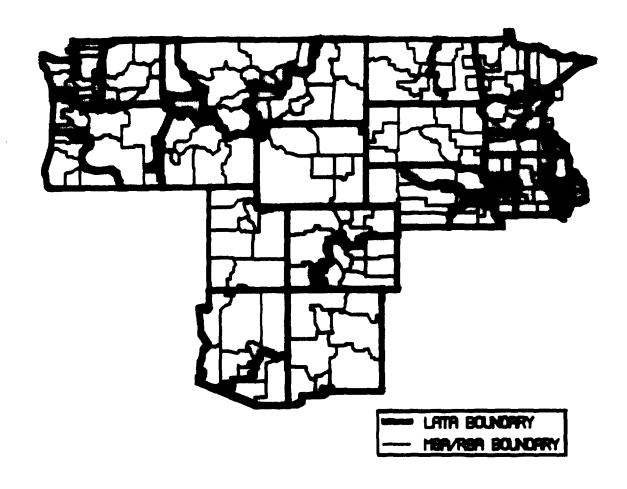
Map 2.11(b). Overlap Between MSA/RSA and LATA Boundaries in the Bell Altantic Region.



Map 2.11(c). Overlap Between MSA/RSA and LATA Boundaries in the BellSouth Region. Map 2.11(d). Overlap Between MSA/RSA and LATA Boundaries in the NYNEX Region.



Map 2.11(e). Overlap Between MSA/RSA and LATA Boundaries in the Pacific Telesis Region. Map 2.11(f). Overlap Between MSA/RSA and LATA Boundaries in the Southwestern Bell Region.



The court granted integrated service waiver requests for nine specific metropolitan complexes in 1983 that extended beyond LATA boundaries, <sup>208</sup> and it has continued to make minor extensions thereafter. **TABLE 2.7**. One of the first nine service areas to receive a service waiver, Baltimore-Washington, D.C., was further modified less than two years later. <sup>207</sup> Since divestiture, the court has granted over 60 waiver requests for various cellular services, the bulk of them since 1988. **TABLE 2.8**, **MAP 2.12**. Many more requests are currently pending before the court and the Department of Justice, and the backlog of pending waiver requests has grown steadily. <sup>208</sup> **TABLE 2.9**.

In 1987, the court granted NYNEX's waiver request (pending since February 8, 1985) to provide interLATA cellular services in several areas of New York, New Jersey, and Connecticut. On September 6, 1988, the court granted 8 interLATA waiver requests, some submitted to the Department as early as November 1986. The waivers allowed various RHCs to provide service across LATA boundaries in areas of Wisconsin, Illinois, Colorado, Kentucky, New Jersey, New Hampshire, and Massachusetts. 210

Several waivers allowing RHCs to provide interLATA cellular service have been granted in conjunction with acquisitions by the RHCs of out-of-region service areas. For example, the court held that with its acquisition of Metromedia, Southwestern Bell could provide interLATA services across the Chicago, Illinois and South Bend, Indiana LATAs and throughout the Baltimore, Maryland and Washington, D.C. CGSA, though the court required that interexchange transport be leased from an unaffiliated interexchange carrier.<sup>211</sup>

<sup>&</sup>lt;sup>208</sup>578 F. Supp. 643.

<sup>&</sup>lt;sup>207</sup>Order, United States v. Western Elec. Co., No. 82-0192 (D.D.C. June 25, 1985).

<sup>&</sup>lt;sup>208</sup>For example, on Julie 1, 1985, nine cellular or paging requests were pending before the Department or the court. Two years later, on June 1, 1987, sixteen requests were pending. As of June 1, 1981, there are 28 pending welver requests.

<sup>&</sup>lt;sup>209</sup>United States v. Western Elec. Co., 1987-1 Trade Cas. (CCH) ¶ 67,452 (D.D.C. 1987) (as a limited partner in the New York SMSA Limited Partnership, Bell Atlantic was also included in the waiver).

<sup>&</sup>lt;sup>210</sup>Orders, United States v. Western Elec. Co., No. 82-1082 (D.D.C. Sept. 6, 1988).

<sup>&</sup>lt;sup>211</sup>Memorandum and Order, United States v. Western Elec. Co., No. 82-0192 (D.D.C. Sept. 22, 1987).